# TREATMENT PROTOCOL: SYMPTOMATIC BRADYCARDIA (ADULT)

- Basic airway
- 2. Pulse oximetry
- 3. Oxygen prn
- Cardiac monitor: document rhythm and attach ECG strip if dysrhythmia identified Bradycardia in acute MI may reflect a protective cardiac mechanism Perform a 12-lead ECG
- 5. Venous access
- 6. Supine position prn
- 7. Advanced airway prn
- 8. Continuous monitoring en route, assess for signs of poor perfusion
- 9. Poor perfusion (If the child is off the Broselow<sup>™</sup> and adult size, move to the Adult protocol and Adult dosing)

# **Atropine**

0.5mg IV push

- 10. If hyperkalemia suspected, Albuterol 5mg via continuous mask nebulization two times. •
- 11. If no improvement:

### Transcutaneous pacing (TCP) if available

Immediate TCP for patients with heart rate equal to or less than 40bpm and SBP equal to or less than 80mmHg in 2<sup>nd</sup> degree (Type II) heart block or 3<sup>rd</sup> degree heart block Do not delay TCP for venous access

Recommended setting initial rate at 70bpm/0mA, slowly increase mA's until capture is achieved

## 12. ESTABLISH BASE CONTACT (ALL)

- If hyperkalemia suspected, Calcium Chloride 1gram slow IV push over 60 seconds May repeat one time. ●②
- 14. Consider fluid challenge

Normal Saline

10ml/kg IV at 250ml increments

Use caution with rales

15. If TCP is not available consider:

### Dopamine (Adult Administration Only) 9

400mg/500ml NS IVPB

Start at 30mcgtts/min titrate to SBP 90-100mmHg and signs of adequate perfusion or to a maximum of 120mcgtts/min

16. If TCP is utilized in the awake patient, consider sedation or analgesia

#### Midazolam 4

- 1-2mg slow IV push titrate for sedation
- 2.5mg IM or IN if unable to obtain venous access

May repeat every 5min, maximum total adult dose 10mg all routes

### Morphine 80

OR

## Fentanyl 60

2-12mg slow IV push for analgesia

50-100mcg slow IVP for analgesia

Maximum total adult dose 20mg May repeat every 5min, maximum adult

dose 200mca

17. If patient continues to have symptomatic bradycardia or TCP is not available:

# Atropine @

0.5mg IV push

May repeat every 3-5min, maximum total adult dose 3mg

EFFECTIVE DATE: 7-1-12 REVISED 5-15-15 SUPERSEDES: 12-1-14

## **SPECIAL CONSIDERATIONS**

- Patients at risk for hyperkalemia are those with renal failure, missed dialysis or patients taking potassium sparing diuretics. EKG signs of hyperkalemia include peaked T-waves, wide QRS, bradycardia, long PR internal, and absent p-waves.
- In consultation with the base hospital, consider sodium bicarbonate 50mEq slow IVP for suspected hyperkalemia.
- Ondansetron may be administered prior to morphine administration reduce potential for nausea/vomiting.
- If the child is off the Broselow<sup>™</sup> and adult size, move to the Adult protocol and Adult dosing.
- 6 If available.
- Absolute contraindications: Altered LOC, respiratory rate less than 12 breaths/min, hypersensitivity or allergy

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